

CMR3-02  
CMR3-04  
CMR3-06  
CMR3-10

GENERAL PURPOSE RECTIFIER  
3.0 AMP, 200 THRU 1,000 VOLTS



SMC CASE

**Central**<sup>TM</sup>  
**Semiconductor Corp.**

**FEATURES:**

- LOW COST
- SPECIAL SELECTIONS AVAILABLE
- HIGH RELIABILITY
- SUPERIOR LOT TO LOT CONSISTENCY
- GLASS PASSIVATED CHIP
- "C" BEND CONSTRUCTION PROVIDES STRAIN RELIEF WHEN MOUNTED ON PC BOARD

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR 3.0 Amp Surface Mount Silicon Rectifier is a high quality, well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications. To order devices on 16mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

**MAXIMUM RATINGS:** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

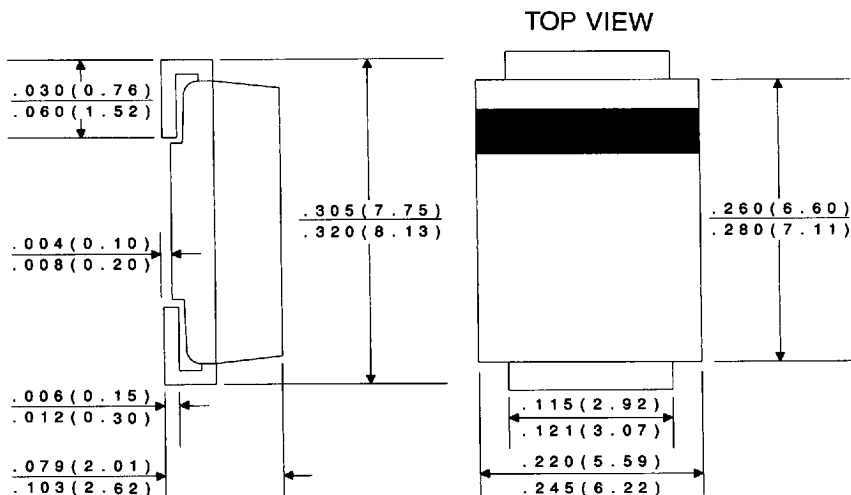
	SYMBOL	CMR3-02	CMR3-04	CMR3-06	CMR3-10	UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	200	400	600	1000	V
DC Blocking Voltage	$V_R$	200	400	600	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	140	280	420	700	V
Average Forward Current ( $T_A=75^{\circ}\text{C}$ )	$I_O$			3.0		A
Peak Forward Surge Current (8.3ms)	$I_{FSM}$			200		A
Operating and Storage						
Junction Temperature	$T_J, T_{stg}$		-65 to +175			$^{\circ}\text{C}$
Thermal Resistance	$\Theta_{JL}$		10			$^{\circ}\text{C/W}$

**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
$V_F$	$I_F=3.0\text{A}$		1.2	V
$I_R$	$V_R=\text{Rated } V_{RRM}$		5.0	$\mu\text{A}$
$I_R$	$V_R=\text{Rated } V_{RRM}, T_A=125^{\circ}\text{C}$		250	$\mu\text{A}$

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All dimensions in inches (mm).



**Marking Codes:**

DEVICE	MARKING CODE
CMR3-02	C302
CMR3-04	C304
CMR3-06	C306
CMR3-10	C310

DATA  
SHEET

1989963 0001884 079

R1